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Nota di contenuto	-- Volume 1. Part I. Introduction. The nature of osteoporosis -- The bone organ system: form and function -- Part II. Developmental, cellular and molecular biology of bone. Development of the skeleton -- The skeletal stem cell -- Osteoclast biology -- Osteoblast biology: developmental origin and interactive nature of osteoblasts -- Osteocytes -- The regulatory role of matrix proteins in mineralization of bone -- Part III. Skeletal hormones and regulatory factors. Parathyroid hormone and parathyroid hormone-related protein -- Phosphatonins -- Skeletal growth factors -- WNT signaling in skeletal homeostasis and diseases -- Part IV. Biomechanics and mechanobiology. The mechanical behavior of bone -- Cellular and molecular mechanotransduction in bone -- Adaptation of skeletal structure to mechanical loading -- Biomechanics of hip and vertebral fractures -- Part V. Epidemiology of osteoporosis. Epidemiologic methods in studies of osteoporosis -- Genetics of osteoporosis -- Race, ethnicity, and osteoporosis -- Geographic variability in the incidence of hip and vertebral fractures -- Nutrition and osteoporosis -- Physical activity, exercise and skeletal health -- Reproductive and hormonal factors and the risk for osteoporosis -- Clinical and

epidemiological studies: skeletal changes across menopause -- Osteoporosis in men: what is similar and what is different? -- Falls as risk factors for fracture -- Impact of physical characteristics and lifestyle factors on bone density and fractures -- Imminent fracture risk and disability post fracture -- Economics of osteopososis -- Part VI. General pathophysiology of osteoporosis. Skeletal heterogeneity and the purposes of bone remodeling -- On the evolution and contemporary roles of bone remodeling -- Estrogen deficiency and the pathogenesis of osteoporosis -- Cytokines and the pathogenesis of osteoporosis -- Bone and fat -- Bone, muscle, and sarcopenia -- Bone mineral acquisition in utero and during infancy and childhood -- Osteoporosis in childhood and adolescence -- Osteoporosis in premenopausal women, pregnancy, and lactation -- Bone and the microbiome -- Volume 2. Part VII. Impact of comorbidity and medications on skeletal health. Immobilization osteoporosis -- Osteoporosis in neurological disorders: Parkinson's disease, stroke, and multiple sclerosis -- Effects on the skeleton from medications used to treat non-skeletal disorders -- Osteoporosis associated with gastrointestinal disorders; celiac and inflammatory bowel diseases -- Osteoporosis associated with eating disorders -- Glucocorticoid-induced osteoporosis and Cushing's syndrome -- Thyroid hormone, thyroid medication, and the skeleton -- The skeletal actions of parathyroid hormone in primary hyperparathyroidism -- Osteogenesis imperfecta and other defects of bone development as occasional causes of adult osteoporosis -- Human immunodeficiency virus and osteoporosis -- Diabetes, diabetic medications, and risk of fracture -- Skeletal health after bariatric surgery -- Osteoporosis in organ transplant patients -- Osteoporosis associated with rheumatologic disorders -- Osteoporosis associated with chronic kidney disease -- Relationship between periodontal disease, tooth loss and osteoporosis -- Impact of breast cancer and its treatment on bone loss and fracture risk - pathophysiology and management -- Management of bone health in men with prostate cancer -- Impact of MGUS and myeloma on skeletal health -- Renal stone disease, hypercalciuria and osteoporosis: use of thiazides and alkali for osteoporosis -- Sleep disorders and osteoporosis -- Part VIII. Diagnosis and evaluation. Evaluation of the osteoporosis patient -- Who should be screened for osteoporosis? -- Vertebral fracture identification -- Noninvasive imaging techniques and fracture risk assessment -- Biochemical markers of bone turnover in osteoporosis -- A comparison of fracture risk assessment tools -- Part IX. Patient management. Orthopedic aspects of osteoporosis -- Fall prevention interventions -- Exercise and other physical therapy interventions in the management of osteoporosis -- Calcium and vitamin d in the management of osteoporosis -- Nutrients beyond calcium and vitamin d to treat osteoporosis -- Condition still critical: compliance and persistence with osteoporosis medications -- Part X. Pharmacotherapeutics. Estrogen and estrogen analogs for prevention and treatment of osteoporosis -- Bisphosphonates pharmacology and use in the treatment of osteoporosis -- Denosumab for the treatment of osteoporosis -- Teriparatide and abaloparatide treatment for osteoporosis -- Calcitonin in osteoporosis -- Androgens -- Long-term bisphosphonate treatment: continuation and interruption -- Romosozumab in the treatment of postmenopausal osteoporosis -- Lessons from bone histomorphometry on the mechanisms of action of osteoporosis drugs -- Part XI. New directions. Long term treatment strategies and goal directed therapy.

Sommario/riassunto

Marcus and Feldman's Osteoporosis, Fifth Edition, is the most comprehensive, authoritative reference on this disease. Led by a new

editorial team, this fifth edition offers critical information on reproductive and hormonal risk factors, new therapeutics, ethnicity, nutrition, therapeutics, management and economics, comprising a tremendous wealth of knowledge in a single source not found elsewhere. Written by renowned experts in the field, this two-volume reference is a must-have for biomedical researchers, research clinicians, fellows, academic and medical libraries, and any company involved in osteoporosis drug research and development.